

SEQUENCE LISTING

<110> ERIKSSON, Ulf  
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HELDIN, Carl-Henrik  
BETSHOLTZ, Christer

<120> PLATELET-DERIVED GROWTH FACTOR C, DNA CODING  
THEREFOR, AND USES THEREOF

<130> 09-410349-Eriksson et al-1064-44740

<140> 60/102,461  
<141> 1998-09-30

<150> 60/108,109  
<151> 1998-11-12

<150> 60/110,749  
<151> 1998-12-03

<150> 60/113,002  
<151> 1998-12-18

<150> 60/135,426  
<151> 1999-05-21

<150> 60/144,022  
<151> 1999-07-15

<160> 39

<170> PatentIn Ver. 2.0

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Ser Ser Asn Lys Glu Gln Asn Gly Val Gln Asp Pro Gln His Glu Arg  
35 40 45

Ile Ile Thr Val Ser Thr Asn Gly Ser Ile His Ser Pro Arg Phe Pro  
50 55 60

His Thr Tyr Pro Arg Asn Thr Val Leu Val Trp Arg Leu Val Ala Val  
65 70 75 80

Glu Glu Asn Val Trp Ile Gln Leu Thr Phe Asp Glu Arg Phe Gly Leu  
85 90 95

Glu Asp Pro Glu Asp Asp Ile Cys Lys Tyr Asp Phe Val Glu Val Glu  
100 105 110

Glu Pro Ser Asp Gly Thr Ile Leu Gly Arg Trp Cys Gly Ser Gly Thr  
115 120 125

Val Pro Gly Lys Gln Ile Ser Lys Gly Asn Gln Ile Arg Ile Arg Phe  
130 135 140

Val Ser Asp Glu Tyr Phe Pro Ser Glu Pro Gly Phe Cys Ile His Tyr  
145 150 155 160

Asn Ile Val Met Pro Gln Phe Thr Glu Ala Val Ser Pro Ser Val Leu  
165 170 175

Pro Pro Ser Ala Leu Pro Leu Asp Leu Leu Asn Asn Ala Ile Thr Ala  
180 185 190

Phe Ser Thr Leu Glu Asp Leu Ile Arg Tyr Leu Glu Pro Glu Arg Trp  
195 200 205

Gln Leu Asp Leu Glu Asp Leu Tyr Arg Pro Thr Trp Gln Leu Leu Gly  
210 215 220

Lys Ala Phe Val Phe Gly Arg Lys Ser Arg Val Val Asp Leu Asn Leu  
225 230 235 240

Leu Thr Glu Glu Val Arg Leu Tyr Ser Cys Thr Pro Arg Asn Phe Ser  
245 250 255

Val Ser Ile Arg Glu Glu Leu Lys Arg Thr Asp Thr Ile Phe Trp Pro  
260 265 270

Gly Cys Leu Leu Val Lys Arg Cys Gly Gly Asn Cys Ala Cys Cys Leu  
275 280 285

His Asn Cys Asn Glu Cys Gln Cys Val Pro Ser Lys Val Thr Lys Lys  
290 295 300

Tyr His Glu Val Leu Gln Leu Arg Pro Lys Thr Gly Val Arg Gly Leu  
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His Lys Ser Leu Thr Asp Val Ala Leu Glu His His Glu Glu Cys Asp  
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<212> DNA
<213> Homo sapiens
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<213> Homo sapiens

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Ser Pro Arg Phe Pro His Thr Tyr Pro Arg Asn Thr Val Leu Val Trp  
35 40 45

Arg Leu Val Ala Val Glu Glu Asn Val Trp Ile Gln Leu Thr Phe Asp  
50 55 60

Glu Arg Phe Gly Leu Glu Asp Pro Glu Asp Asp Ile Cys Lys Tyr Asp  
65 70 75 80

Phe Val Glu Val Glu Glu Pro Ser Asp Gly Thr Ile Leu Gly Arg Trp  
85 90 95

Cys Gly Ser Gly Thr Val Pro Gly Lys Gln Ile Ser Lys Gly Asn Gln  
100 105 110

Ile Arg Ile Arg Phe Val Ser Asp Glu Tyr Phe Pro Ser Glu Pro Gly  
115 120 125

Phe Cys Ile His Tyr Asn Ile Val Met Pro Gln Phe Thr Glu Ala Val  
130 135 140

Ser Pro Ser Val Leu Pro Pro Ser Ala Leu Pro Leu Asp Leu Leu Asn  
145 150 155 160

Asn Ala Ile Thr Ala Phe Ser Thr Leu Glu Asp Leu Ile Arg Tyr Leu  
165 170 175

Glu Pro Glu Arg Trp Gln Leu Asp Leu Glu Asp Leu Tyr Arg Pro Thr  
180 185 190

Trp Gln Leu Leu Gly Lys Ala Phe Val Phe Gly Arg Lys Ser Arg Val  
195 200 205

Val Asp Leu Asn Leu Leu Thr Glu Glu Val Arg Leu Tyr Ser Cys Thr  
210 215 220

Pro Arg Asn Phe Ser Val Ser Ile Arg Glu Glu Leu Lys Arg Thr Asp  
225 230 235 240

Thr Ile Phe Trp Pro Gly Cys Leu Leu Val Lys Arg Cys Gly Gly Asn  
245 250 255

Cys Ala Cys Cys Leu His Asn Cys Asn Glu Cys Gln Cys Val Pro Ser  
260 265 270

Lys Val Thr Lys Lys Tyr His Glu Val Leu Gln Leu Arg Pro Lys Thr  
275 280 285

Gly Val Arg Gly Leu His Lys Ser Leu Thr Asp Val Ala Leu Glu His  
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<222> (1447)  
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Ser Ser Asp Lys Glu Gln Asn Gly Val Gln Asp Pro Arg His Glu Arg  
35 40 45

Val Val Thr Ile Ser Gly Asn Gly Ser Ile His Ser Pro Lys Phe Pro  
50 55 60

His Thr Tyr Pro Arg Asn Met Val Leu Val Trp Arg Leu Val Ala Val  
65 70 75 80

Asp Glu Asn Val Arg Ile Gln Leu Thr Phe Asp Glu Arg Phe Gly Leu  
85 90 95

Glu Asp Pro Glu Asp Asp Ile Cys Lys Tyr Asp Phe Val Glu Val Glu  
100 105 110

Glu Pro Ser Asp Gly Ser Val Leu Gly Arg Trp Cys Gly Ser Gly Thr  
115 120 125

Val Pro Gly Lys Gln Thr Ser Lys Gly Asn His Ile Arg Ile Arg Phe  
130 135 140

Val Ser Asp Glu Tyr Phe Pro Ser Glu Pro Gly Phe Cys Ile His Tyr  
145 150 155 160

Ser Ile Ile Met Pro Gln Val Thr Glu Thr Thr Ser Pro Ser Val Leu  
165 170 175

Pro Pro Ser Ser Leu Ser Leu Asp Leu Leu Asn Asn Ala Val Thr Ala  
180 185 190

Phe Ser Thr Leu Glu Glu Leu Ile Arg Tyr Leu Glu Pro Asp Arg Trp  
195 200 205

Gln Val Asp Leu Asp Ser Leu Tyr Lys Pro Thr Trp Gln Leu Leu Gly  
210 215 220

Lys Ala Phe Leu Tyr Gly Lys Lys Ser Lys Val Val Asn Leu Asn Leu  
225 230 235 240

Leu Lys Glu Glu Val Lys Leu Tyr Ser Cys Thr Pro Arg Asn Phe Ser  
245 250 255

Val Ser Ile Arg Glu Glu Leu Lys Arg Thr Asp Thr Ile Phe Trp Pro  
260 265 270

Gly Cys Leu Leu Val Lys Arg Cys Gly Gly Asn Cys Ala Cys Cys Leu  
275 280 285

His Asn Cys Asn Glu Cys Gln Cys Val Pro Arg Lys Val Thr Lys Lys  
290 295 300

Tyr His Glu Val Leu Gln Leu Arg Pro Lys Thr Gly Val Lys Gly Leu  
305 310 315 320

His Lys Ser Leu Thr Asp Val Ala Leu Glu His His Glu Glu Cys Asp  
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Cys Val Cys Arg Gly Asn Ala Gly Gly  
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Gly Gly Gln Asn His His Glu Val Val Lys Phe Met Asp Val Tyr Gln  
35 40 45

Arg Ser Tyr Cys His Pro Ile Glu Thr Leu Val Asp Ile Phe Gln Glu  
50 55 60

Tyr Pro Asp Glu Ile Glu Tyr Ile Phe Lys Pro Ser Cys Val Pro Leu  
 65 70 75 80

Met Arg Cys Gly Gly Cys Cys Asn Asp Glu Gly Leu Glu Cys Val Pro  
85 90 95

Thr Glu Glu Ser Asn Ile Thr Met Gln Ile Met Arg Ile Lys Pro His  
                   100                  105                  110

Gln Gly Gln His Ile Gly Glu Met Ser Phe Leu Gln His Asn Lys Cys  
115 120 125

Glu Cys Arg Pro Lys Lys Asp Arg Ala Arg Gln Glu Asn Pro Cys Gly  
130 135 140

Pro Cys Ser Ser Glu Arg Arg Lys His Leu Phe Val Gln Asp Pro Gln  
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Thr Cys Lys Cys Ser Cys Lys Asn Thr Asp Ser Arg Cys Lys Ala Arg  
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Gln Leu Glu Leu Asn Glu Arg Thr Cys Arg Cys Asp Lys Pro Arg Arg  
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20 25 30

Asn Gly Ser Ser Glu Val Glu Val Val Pro Phe Gln Glu Val Trp Gly  
35 40 45

Arg Ser Tyr Cys Arg Ala Leu Glu Arg Leu Val Asp Val Val Ser Glu  
50 55 60

Tyr Pro Ser Glu Val Glu His Met Phe Ser Pro Ser Cys Val Ser Leu

65

70

75

80

Leu Arg Cys Thr Gly Cys Cys Gly Asp Glu Asp Leu His Cys Val Pro  
85 90 95

Val Glu Thr Ala Asn Val Thr Met Gln Leu Leu Lys Ile Arg Ser Gly  
100 105 110

Asp Arg Pro Ser Tyr Val Glu Leu Thr Phe Ser Gln His Val Arg Cys  
115 120 125

Glu Cys Arg Pro Leu Arg Glu Lys Met Lys Pro Glu Arg Arg Arg Pro  
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Lys Gly Arg Gly Lys Arg Arg Arg Glu Asn Gln Arg Pro Thr Asp Cys  
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His Leu Cys Gly Asp Ala Val Pro Arg Arg  
165 170

<210> 10  
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Arg Lys Val Val Ser Trp Ile Asp Val Tyr Thr Arg Ala Thr Cys Gln  
35 40 45

Pro Arg Glu Val Val Val Pro Leu Thr Val Glu Leu Met Gly Thr Val  
50 55 60

Ala Lys Gln Leu Val Pro Ser Cys Val Thr Val Gln Arg Cys Gly Gly  
65 70 75 80

Cys Cys Pro Asp Asp Gly Leu Glu Cys Val Pro Thr Gly Gln His Gln  
85 90 95

Val Arg Met Gln Ile Leu Met Ile Arg Tyr Pro Ser Ser Gln Leu Gly  
100 105 110

Glu Met Ser Leu Glu Glu His Ser Gln Cys Glu Cys Arg Pro Lys Lys  
115 120 125

Lys Asp Ser Ala Val Lys Pro Asp Ser Pro Arg Pro Leu Cys Pro Arg  
130 135 140

Cys Thr Gln His His Gln Arg Pro Asp Pro Arg Thr Cys Arg Cys Arg  
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Asn Pro Asp Thr Cys Arg Cys Arg Lys Leu Arg Arg  
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<212> PRT

<213> Homo sapiens

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20 25 30

Gly Ser Glu Cys Lys Pro Arg Pro Ile Val Val Pro Val Ser Glu Thr  
35 40 45

His Pro Glu Leu Thr Ser Gln Arg Phe Asn Pro Pro Cys Val Thr Leu  
50 55 60

Met Arg Cys Gly Gly Cys Cys Asn Asp Glu Ser Leu Glu Cys Val Pro  
65 70 75 80

Thr Glu Glu Val Asn Val Ser Met Glu Leu Leu Gly Ala Ser Gly Ser  
85 90 95

Gly Ser Asn Gly Met Gln Arg Leu Ser Phe Val Glu His Lys Lys Cys  
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Asp Cys Arg Pro Arg Phe Thr Thr Pro Pro Thr Thr Arg Pro  
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Pro Arg Arg Arg Arg

130

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Glu Ser Gly Leu Asp Leu Ser Asp Ala Glu Pro Asp Ala Gly Glu Ala  
35 40 45  
  
Thr Ala Tyr Ala Ser Lys Asp Leu Glu Glu Gln Leu Arg Ser Val Ser  
50 55 60  
  
Ser Val Asp Glu Leu Met Thr Val Leu Tyr Pro Glu Tyr Trp Lys Met  
65 70 75 80  
  
Tyr Lys Cys Gln Leu Arg Lys Gly Gly Trp Gln His Asn Arg Glu Gln  
85 90 95  
  
Ala Asn Leu Asn Ser Arg Thr Glu Glu Thr Ile Lys Phe Ala Ala Ala  
100 105 110  
  
His Tyr Asn Thr Glu Ile Leu Lys Ser Ile Asp Asn Glu Trp Arg Lys  
115 120 125  
  
Thr Gln Cys Met Pro Arg Glu Val Cys Ile Asp Val Gly Lys Glu Phe  
130 135 140  
  
Gly Val Ala Thr Asn Thr Phe Phe Lys Pro Pro Cys Val Ser Val Tyr  
145 150 155 160  
  
Arg Cys Gly Gly Cys Cys Asn Ser Glu Gly Leu Gln Cys Met Asn Thr  
165 170 175  
  
Ser Thr Ser Tyr Leu Ser Lys Thr Leu Phe Glu Ile Thr Val Pro Leu  
180 185 190  
  
Ser Gln Gly Pro Lys Pro Val Thr Ile Ser Phe Ala Asn His Thr Ser  
195 200 205  
  
Cys Arg Cys Met Ser Lys Leu Asp Val Tyr Arg Gln Val His Ser Ile

210

215

220

Ile Arg Arg Ser Leu Pro Ala Thr Leu Pro Gln Cys Gln Ala Ala Asn  
225 230 235 240

Lys Thr Cys Pro Thr Asn Tyr Met Trp Asn Asn His Ile Cys Arg Cys  
245 250 255

Leu Ala Gln Glu Asp Phe Met Phe Ser Ser Asp Ala Gly Asp Asp Ser  
260 265 270

Thr Asp Gly Phe His Asp Ile Cys Gly Pro Asn Lys Glu Leu Asp Glu  
 275 280 285

Glu Thr Cys Gln Cys Val Cys Arg Ala Gly Leu Arg Pro Ala Ser Cys  
 290 295 300

Gly Pro His Lys Glu Leu Asp Arg Asn Ser Cys Gln Cys Val Cys Lys  
 305 310 315 320

Asn Lys Leu Phe Pro Ser Gln Cys Gly Ala Asn Arg Glu Phe Asp Glu  
                  325                 330                 335

Asn Thr Cys Gln Cys Val Cys Lys Arg Thr Cys Pro Arg Asn Gln Pro  
 340 345 350

Leu Asn Pro Gly Lys Cys Ala Cys Glu Cys Thr Glu Ser Pro Gln Lys  
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Arg Arg Pro Cys Thr Asp Arg Glu Lys Ala Cys Glu Pro Glu Phe Ser

405 410 415

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<212> PRT

<213> Homo sapiens

<400> 13

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Tyr Leu Val Gln Gly Phe Arg Ser Glu His Gly Pro Val Lys Asp Phe  
20 25 30

Ser Phe Glu Arg Ser Ser Arg Ser Met Leu Glu Arg Ser Glu Gln Gln  
35 40 45

Ile Arg Ala Ala Ser Ser Leu Glu Glu Leu Leu Gln Ile Ala His Ser  
50 55 60

Glu Asp Trp Lys Leu Trp Arg Cys Arg Leu Lys Leu Lys Ser Leu Ala  
65 70 75 80

Ser Met Asp Ser Arg Ser Ala Ser His Arg Ser Thr Arg Phe Ala Ala  
85 90 95

Thr Phe Tyr Asp Thr Glu Thr Leu Lys Val Ile Asp Glu Glu Trp Gln  
100 105 110

Arg Thr Gln Cys Ser Pro Arg Glu Thr Cys Val Glu Val Ala Ser Glu  
115 120 125

Leu Gly Lys Thr Thr Asn Thr Phe Phe Lys Pro Pro Cys Val Asn Val  
130 135 140

Phe Arg Cys Gly Gly Cys Cys Asn Glu Glu Gly Val Met Cys Met Asn  
145 150 155 160

Thr Ser Thr Ser Tyr Ile Ser Lys Gln Leu Phe Glu Ile Ser Val Pro  
165 170 175

Leu Thr Ser Val Pro Glu Leu Val Pro Val Lys Ile Ala Asn His Thr  
180 185 190

Gly Cys Lys Cys Leu Pro Thr Gly Pro Arg His Pro Tyr Ser Ile Ile  
195 200 205

Arg Arg Ser Ile Gln Thr Pro Glu Glu Asp Glu Cys Pro His Ser Lys  
210 215 220

Lys Leu Cys Pro Ile Asp Met Leu Trp Asp Asn Thr Lys Cys Lys Cys  
225 230 235 240

Val Leu Gln Asp Glu Thr Pro Leu Pro Gly Thr Glu Asp His Ser Tyr  
245 250 255

Leu Gln Glu Pro Thr Leu Cys Gly Pro His Met Thr Phe Asp Glu Asp  
260 265 270

Arg Cys Glu Cys Val Cys Lys Ala Pro Cys Pro Gly Asp Leu Ile Gln  
275 280 285

His Pro Glu Asn Cys Ser Cys Phe Glu Cys Lys Glu Ser Leu Glu Ser  
290 295 300

Cys Cys Gln Lys His Lys Ile Phe His Pro Asp Thr Cys Ser Cys Glu  
305 310 315 320

Asp Arg Cys Pro Phe His Thr Arg Thr Cys Ala Ser Arg Lys Pro Ala  
325 330 335

Cys Gly Lys His Trp Arg Phe Pro Lys Glu Thr Arg Ala Gln Gly Leu  
340 345 350

Tyr Ser Gln Glu Asn Pro  
355

<210> 14  
<211> 211  
<212> PRT  
<213> Homo sapiens

<400> 14  
Met Arg Thr Leu Ala Cys Leu Leu Leu Gly Cys Gly Tyr Leu Ala  
1 5 10 15

His Val Leu Ala Glu Glu Ala Glu Ile Pro Arg Glu Val Ile Glu Arg  
20 25 30

Leu Ala Arg Ser Gln Ile His Ser Ile Arg Asp Leu Gln Arg Leu Leu  
35 40 45

Glu Ile Asp Ser Val Gly Ser Glu Asp Ser Leu Asp Thr Ser Leu Arg  
50 55 60

Ala His Gly Val His Ala Thr Lys His Val Pro Glu Lys Arg Pro Leu  
65 70 75 80

Pro Ile Arg Arg Lys Arg Ser Ile Glu Glu Ala Val Pro Ala Val Cys  
85 90 95

Lys Thr Arg Thr Val Ile Tyr Glu Ile Pro Arg Ser Gln Val Asp Pro  
100 105 110

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Thr Ser Ala Asn Phe Leu Ile Trp Pro Pro Cys Val Glu Val Lys Arg  
115 120 125

Cys Thr Gly Cys Cys Asn Thr Ser Ser Val Lys Cys Gln Pro Ser Arg  
130 135 140

Val His His Arg Ser Val Lys Val Ala Lys Val Glu Tyr Val Arg Lys  
145 150 155 160

Lys Pro Lys Leu Lys Glu Val Gln Val Arg Leu Glu Glu His Leu Glu  
165 170 175

Cys Ala Cys Ala Thr Thr Ser Leu Asn Pro Asp Tyr Arg Glu Glu Asp  
180 185 190

Thr Gly Arg Pro Arg Glu Ser Gly Lys Lys Arg Lys Arg Lys Arg Leu  
195 200 205

Lys Pro Thr  
210

<210> 15  
<211> 241  
<212> PRT  
<213> Homo sapiens

<400> 15

Met Asn Arg Cys Trp Ala Leu Phe Leu Ser Leu Cys Cys Tyr Leu Arg  
1 5 10 15

Leu Val Ser Ala Glu Gly Asp Pro Ile Pro Glu Glu Leu Tyr Glu Met  
20 25 30

Leu Ser Asp His Ser Ile Arg Ser Phe Asp Asp Leu Gln Arg Leu Leu  
35 40 45

His Gly Asp Pro Gly Glu Glu Asp Gly Ala Glu Leu Asp Leu Asn Met  
50 55 60

Thr Arg Ser His Ser Gly Gly Glu Leu Glu Ser Leu Ala Arg Gly Arg  
65 70 75 80

Arg Ser Leu Gly Ser Leu Thr Ile Ala Glu Pro Ala Met Ile Ala Glu  
85 90 95

Cys Lys Thr Arg Thr Glu Val Phe Glu Ile Ser Arg Arg Leu Ile Asp

100

105

110

Arg Thr Asn Ala Asn Phe Leu Val Trp Pro Pro Cys Val Glu Val Gln  
115 120 125

Arg Cys Ser Gly Cys Cys Asn Asn Arg Asn Val Gln Cys Arg Pro Thr  
130 135 140

Gln Val Gln Leu Arg Pro Val Gln Val Arg Lys Ile Glu Ile Val Arg  
145 150 155 160

Lys Lys Pro Ile Phe Lys Lys Ala Thr Val Thr Leu Glu Asp His Leu  
165 170 175

Ala Cys Lys Cys Glu Thr Val Ala Ala Ala Arg Pro Val Thr Arg Ser  
180 185 190

Pro Gly Gly Ser Gln Glu Gln Arg Ala Lys Thr Pro Gln Thr Arg Val  
195 200 205

Thr Ile Arg Thr Val Arg Val Arg Arg Pro Pro Lys Gly Lys His Arg  
210 215 220

Lys Phe Lys His Thr His Asp Lys Thr Ala Leu Lys Glu Thr Leu Gly  
225 230 235 240

Ala

<210> 16

<211> 182

<212> PRT

<213> Homo sapiens

<400> 16

Met Pro Gln Phe Thr Asp Cys Val Cys Arg Gly Ser Thr Gly Gly Glu  
1 5 10 15

Ala Val Ser Pro Ser Val Leu Pro Pro Ser Ala Leu Pro Leu Asp Leu  
20 25 30

Leu Asn Asn Ala Ile Thr Ala Phe Ser Thr Leu Glu Asp Leu Ile Arg  
35 40 45

Tyr Leu Glu Pro Glu Arg Trp Gln Leu Asp Leu Glu Asp Leu Tyr Arg  
50 55 60

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Pro Thr Trp Gln Leu Leu Gly Lys Ala Phe Val Phe Gly Arg Lys Ser  
65 70 75 80

Arg Val Val Asp Leu Asn Leu Leu Thr Glu Glu Val Arg Leu Tyr Ser  
85 90 95

Cys Thr Pro Arg Asn Phe Ser Val Ser Ile Arg Glu Glu Leu Lys Arg  
100 105 110

Thr Asp Thr Ile Phe Trp Pro Gly Cys Leu Leu Val Lys Arg Cys Gly  
115 120 125

Gly Asn Cys Ala Cys Cys Leu His Asn Cys Asn Glu Cys Gln Cys Val  
130 135 140

Pro Ser Lys Val Thr Lys Tyr His Glu Val Leu Gln Leu Arg Pro  
145 150 155 160

Lys Thr Gly Val Arg Gly Leu His Lys Ser Leu Thr Asp Val Ala Leu  
165 170 175

Glu His His Glu Glu Cys  
180

<210> 17

<211> 182

<212> PRT

<213> Murinae gen. sp.

<400> 17

Met Pro Gln Val Thr Glu Thr Ser Pro Ser Val Leu Pro Pro Ser  
1 5 10 15

Ser Leu Ser Leu Asp Leu Leu Asn Asn Ala Val Thr Ala Phe Ser Thr  
20 25 30

Leu Glu Glu Leu Ile Arg Tyr Leu Glu Pro Asp Arg Trp Gln Val Asp  
35 40 45

Leu Asp Ser Leu Tyr Lys Pro Thr Trp Gln Leu Asp Cys Val Cys Arg  
50 55 60

Gly Asn Ala Gly Gly Leu Gly Lys Ala Phe Leu Tyr Gly Lys Lys Ser  
65 70 75 80

Lys Val Val Asn Leu Asn Leu Leu Lys Glu Glu Val Lys Leu Tyr Ser  
85 90 95

Cys Thr Pro Arg Asn Phe Ser Val Ser Ile Arg Glu Glu Leu Lys Arg  
100 105 110

Thr Asp Thr Ile Phe Trp Pro Gly Cys Leu Leu Val Lys Arg Cys Gly  
115 120 125

Gly Asn Cys Ala Cys Cys Leu His Asn Cys Asn Glu Cys Gln Cys Val  
130 135 140

Pro Arg Lys Val Thr Lys Lys Tyr His Glu Val Leu Gln Leu Arg Pro  
145 150 155 160

Lys Thr Gly Val Lys Gly Leu His Lys Ser Leu Thr Asp Val Ala Leu  
165 170 175

Glu His His Glu Glu Cys  
180

<210> 18  
<211> 117  
<212> PRT  
<213> Murinae gen. sp.

<400> 18  
Glu Arg Val Val Thr Ile Ser Gly Asn Gly Ser Ile His Ser Pro Lys  
1 5 10 15

Phe Pro His Thr Tyr Pro Arg Asn Met Val Leu Val Trp Arg Leu Val  
20 25 30

Ala Val Asp Glu Asn Val Arg Ile Gln Leu Thr Phe Asp Glu Arg Phe  
35 40 45

Gly Leu Glu Asp Pro Glu Asp Asp Ile Cys Lys Tyr Asp Phe Val Glu  
50 55 60

Val Glu Glu Pro Ser Asp Gly Ser Val Leu Gly Arg Trp Cys Gly Ser  
65 70 75 80

Gly Thr Val Pro Gly Lys Gln Thr Ser Lys Gly Asn Met Ile Arg Ile  
85 90 95

Arg Phe Val Ser Asp Glu Tyr Phe Pro Ser Glu Pro Gly Phe Cys Ile  
100 105 110

His Tyr Ser Ile Ile

<210> 19  
 <211> 117  
 <212> PRT  
 <213> Homo sapiens

<400> 19  
 Glu Arg Ile Ile Thr Val Ser Thr Asn Gly Ser Ile His Ser Pro Arg  
 1 5 10 15

Phe Pro His Thr Tyr Pro Arg Asn Thr Val Leu Val Trp Arg Leu Val  
 20 25 30

Ala Val Glu Glu Asn Val Trp Ile Gln Leu Thr Phe Asp Glu Arg Phe  
 35 40 45

Gly Leu Glu Asp Pro Glu Asp Asp Ile Cys Lys Tyr Asp Phe Val Glu  
 50 55 60

Val Glu Glu Pro Ser Asp Gly Thr Ile Leu Gly Arg Trp Cys Gly Ser  
 65 70 75 80

Gly Thr Val Pro Gly Lys Gln Ile Ser Lys Gly Asn Gln Ile Arg Ile  
 85 90 95

Arg Phe Val Ser Asp Glu Tyr Phe Pro Ser Glu Pro Gly Phe Cys Ile  
 100 105 110

His Tyr Asn Ile Val  
 115

<210> 20  
 <211> 113  
 <212> PRT  
 <213> Homo sapiens

<400> 20  
 Cys Gly Glu Thr Leu Gln Asp Ser Thr Gly Asn Phe Ser Ser Pro Glu  
 1 5 10 15

Tyr Pro Asn Gly Tyr Ser Ala His Met His Cys Val Trp Arg Ile Ser  
 20 25 30

Val Thr Pro Gly Glu Lys Ile Ile Leu Asn Phe Thr Ser Leu Asp Leu  
 35 40 45

Tyr Arg Ser Arg Leu Cys Trp Tyr Asp Tyr Val Glu Val Arg Asp Gly  
50 55 60

Phe Trp Arg Lys Ala Pro Leu Arg Gly Arg Phe Cys Gly Ser Lys Leu  
65 70 75 80

Pro Glu Pro Ile Val Ser Thr Asp Ser Arg Leu Trp Val Glu Phe Arg  
85 90 95

Ser Ser Ser Asn Trp Val Gly Lys Gly Phe Phe Ala Val Tyr Glu Ala  
100 105 110

Ile

<210> 21

<211> 112

<212> PRT

<213> Homo sapiens

<400> 21

Cys Gly Gly Asp Val Lys Lys Asp Tyr Gly His Ile Gln Ser Pro Asn  
1 5 10 15

Tyr Pro Asp Asp Tyr Arg Pro Ser Lys Val Cys Ile Trp Arg Ile Gln  
20 25 30

Val Ser Glu Gly Phe His Val Gly Leu Thr Phe Gln Ser Phe Glu Ile  
35 40 45

Glu Arg Met Asp Ser Cys Ala Tyr Asp Tyr Leu Glu Val Arg Asp Gly  
50 55 60

His Ser Glu Ser Ser Thr Leu Ile Gly Arg Tyr Cys Gly Tyr Glu Lys  
65 70 75 80

Pro Asp Asp Ile Lys Ser Thr Ser Ser Arg Leu Trp Leu Lys Phe Val  
85 90 95

Ser Asp Gly Ser Ile Asn Lys Ala Gly Phe Ala Val Asn Phe Phe Lys  
100 105 110

<210> 22  
<211> 113  
<212> PRT  
<213> Homo sapiens

<400> 22

Cys	Gly	Gly	Phe	Leu	Thr	Lys	Leu	Asn	Gly	Ser	Ile	Thr	Ser	Pro	Gly
1			5			10								15	
Trp	Pro	Lys	Glu	Tyr	Pro	Pro	Asn	Lys	Asn	Cys	Ile	Trp	Gln	Leu	Val
	20				25								30		
Ala	Pro	Thr	Gln	Tyr	Arg	Ile	Ser	Leu	Gln	Phe	Asp	Phe	Phe	Glu	Thr
	35					40							45		
Glu	Gly	Asn	Asp	Val	Cys	Lys	Tyr	Asp	Phe	Val	Glu	Val	Arg	Ser	Gly
	50				55						60				
Leu	Thr	Ala	Asp	Ser	Lys	Leu	His	Gly	Lys	Phe	Cys	Gly	Ser	Glu	Lys
	65				70				75				80		
Pro	Glu	Val	Ile	Thr	Ser	Gln	Tyr	Asn	Asn	Met	Arg	Val	Glu	Pro	Lys
	85					90						95			
Ser	Asp	Asn	Thr	Val	Ser	Lys	Lys	Gly	Phe	Lys	Ala	His	Phe	Phe	Ser
	100					105						110			
Glu															

<210> 23  
<211> 113  
<212> PRT  
<213> Homo sapiens

<400> 23

Gly	Asp	Thr	Ile	Lys	Ile	Glu	Ser	Pro	Gly	Tyr	Leu	Thr	Ser	Pro	Gly
1			5			10							15		
Tyr	Pro	His	Ser	Tyr	His	Pro	Ser	Glu	Lys	Cys	Glu	Trp	Leu	Ile	Gln
	20				25							30			
Ala	Pro	Asp	Pro	Tyr	Gln	Arg	Ile	Met	Ile	Asn	Phe	Asn	Pro	His	Phe
	35					40						45			
Asp	Leu	Glu	Asp	Arg	Asp	Cys	Lys	Tyr	Asp	Tyr	Val	Glu	Val	Phe	Asp
	50					55					60				

Gly Glu Asn Glu Asn Gly His Phe Arg Gly Lys Phe Cys Gly Lys Ile  
65 70 75 80

Ala Pro Pro Pro Val Val Ser Ser Gly Pro Phe Leu Phe Ile Lys Phe  
85 90 95

Val Ser Asp Tyr Glu Thr His Gly Ala Gly Phe Ser Ile Arg Tyr Glu  
100 105 110

Ile

<210> 24

<211> 119

<212> PRT

<213> Homo sapiens

<400> 24

Cys Ser Gln Asn Tyr Thr Thr Pro Ser Gly Val Ile Lys Ser Pro Gly  
1 5 10 15

Phe Pro Glu Lys Tyr Pro Asn Ser Leu Glu Cys Thr Tyr Ile Val Phe  
20 25 30

Ala Pro Lys Met Ser Glu Ile Ile Leu Glu Phe Glu Ser Phe Asp Leu  
35 40 45

Glu Pro Asp Ser Asn Pro Pro Gly Gly Met Phe Cys Arg Tyr Asp Arg  
50 55 60

Leu Glu Ile Trp Asp Gly Phe Pro Asp Val Gly Pro His Ile Gly Arg  
65 70 75 80

Tyr Cys Gly Gln Lys Thr Pro Gly Arg Ile Arg Ser Ser Ser Gly Ile  
85 90 95

Leu Ser Met Val Phe Tyr Thr Asp Ser Ala Ile Ala Lys Glu Gly Phe  
100 105 110

Ser Ala Asn Tyr Ser Val Leu  
115

<210> 25

<211> 19

<212> DNA

<213> Homo sapiens

<400> 25

gaagttgagg aacccagtg

19

<210> 26

<211> 20

<212> DNA

<213> Homo sapiens

<400> 26

cttgccaaga agttgccaag

20

<210> 27

<211> 19

<212> DNA

<213> Murinae gen. sp.

<400> 27

cttcagtaacc ttggaagag

19

<210> 28

<211> 19

<212> DNA

<213> Murinae gen. sp.

<400> 28

cgcttgacca ggagacaac

19

<210> 29

<211> 30

<212> DNA

<213> Murinae gen. sp.

<400> 29

acgtgaattc agcaagttca gcctggtaa

30

<210> 30

<211> 30

<212> DNA

<213> Murinae gen. sp.

<400> 30

acgtggatcc tgagtatttc ttccaggta

30

<210> 31

<211> 22

<212> PRT

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<213> Homo sapiens

<400> 31

Cys Lys Phe Gln Phe Ser Ser Asn Lys Glu Gln Asn Gly Val Gln Asp  
1 5 10 15

Pro Gln His Glu Arg Cys

20

<210> 32

<211> 21

<212> PRT

<213> Homo sapiens

<400> 32

Gly Arg Lys Ser Arg Val Val Asp Leu Asn Leu Leu Thr Glu Glu Val  
1 5 10 15

Arg Leu Tyr Ser Cys

20

<210> 33

<211> 26

<212> DNA

<213> Homo sapiens

<400> 33

cgggatcccg aatccaaacct gagtag 26

<210> 34

<211> 61

<212> DNA

<213> Homo sapiens

<400> 34

ggaattccta atggatgg tgatgtgtt tgtcatgtc atctccctc gtgctccctc 60  
t 61

<210> 35

<211> 29

<212> DNA

<213> Homo sapiens

<400> 35

cggatccgg aagaaaatcc agagtgg 29

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<210> 36
<211> 61
<212> DNA
<213> Homo sapiens
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<400> 36  
ggaattccta atggtgatgg tcatgtatgtt tgtcatcgct atctccctcct gtgctccctc 60  
t 61

<210> 37  
<211> 21  
<212> PRT  
<213> *Homo sapiens*

<400> 37  
Gly Arg Lys Ser Arg Val Val Asp Leu Asn Leu Leu Thr Glu Glu Val  
1 5 10 15

Arg Leu Tyr Ser Cys  
20

<210> 38  
<211> 26  
<212> DNA  
<213> *Homo sapiens*

<220>  
<223> Forward PCR primer from the human PDGF-C 430 bp  
cDNA fragment encoding the CUB domain which  
includes a BamHI site

<400> 38  
cgggatcc

<210> 39  
<211> 60  
<212> DNA  
<213> *Homo sapiens*

<220>  
<223> Reverse PCR primer from the human PDGF-C 430 bp  
cDNA fragment encoding the CUB domain which  
includes a EcoRI site and sequences coding for a  
C-terminal 6X His tag preceded by an enterokinase  
site

<400> 39

ccggaattcc taatggtgat ggtgatgatg tttgtcatcg tcgtcgacaa tggtagtg 60

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